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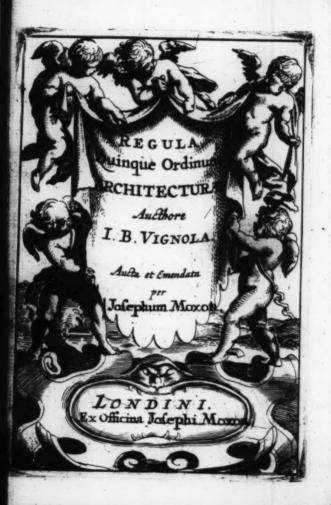
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VIGNOLA:

OR

Architect.

Shewing in a Plain and Easie way the Rules of the Five Orders in ARCHITECTURE:

VIZ.

TUSCAN, DORICK, IONICK, CORINTHIAN & COMPOSITE.

Whereby, any that can but Read and Understand English, may readily learn the Proportions that all Members in a Building have one unto another.

Set forth by Mr. James Barozzio of Vignola

Translated into English , By Joseph Mexon.

The Third Edition, with Additions,
2 Chron. 3 3, Now these are the things wherein Solomon with the
ed for the building of the bouse of God, &c

LUNON.

on Ludgate Hill, neer Fleet Bridge, at the Signe of ATL AS. 1673.

ALONOLA

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To the Ingenious Artist.

Have here presented you with the Works of Mr. James Barozzio of Vignola in English, who for his great Skill and knowledge in the Art of Architecture, is much respected, and highly applauded among all Artificers throughout

Christendome, there being few Nations of any note, that have not his works translated into their own Language: onely me here in England (I know not whether it be through carelesness in Artists, or else covetausness) mind not those things which make other Countries (that have nothing else to boast of) so famous among their Neighbours: Certain I am that England breeds as good wits as other Lands do, and would they but shew themselves more forward in commendable Studies, would doubtles share with them in their Praises.

our Author first collected these things together for his bun private use: and by the solicitations of many Persons of Worth and Honour, did at last (though unwillingly contents make the World for a small price partakers of that which cost him so much labour, study and tracel.

1 2

To the Reader.

And whereas former Authors left their Works Rudy ! uncertain, or at least doubtfull to all but their own and ye Nations, in respect of the several measures they in, I used; as some the Fathom, some the Foot, some the veny Span, some the Inch of their own particular Country, felf ? which seldome agrees with the Fathom, Fact or Inch of recon any other Land , our Author to avoid that great inconnatio ven ence, and certain uncertainty bath reduced all his measures to a convenient and universal measure, which Aba is aulted by the name of a Model : the invancion where. Anu of hath made the whole Art of Architecture very easi to all Students therein : for it is nothing elfo but the half Diamter of the Column at the lower and thencof, as if the whole Diameter fould be 10, 12, 14 or 16 inches, then will the half Diameter be 5,6,7, er 8 inches, and that is called the Model: which Model he divides into 12 equal parts, when he frames the Tucan and Dorick Order: and into 18 for the Ionick, Co. rinthian and Composite.

In the Translation of this Book, I have followed (fo neer as I could the words of our Author, untels here and there Thave been a little more large, thereby endeavouring the better to express his meaning, and in-Brutt the young Prattitioner. I confess the Book was formerly translated by another hand, but it was fo generally differed findeed not without cause) that I chose rather to take the pains to translate it a new, than run the hazzardof descouraging young Artists with these dark

and an proper directions

Non first better instructions of such as define to

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Tothe Resder.

Works fludy this pleasant, profitable and commendable Art? ir own and yet are differented by the strange words used theres they in, I have collected all the hard words together, and gine the ven you the meaning of them's that fo when you find your untry, felf pur reled with any word of Art, you need but have inch of recourse to this Alphabetical Table, and find the explaincon- nation of any hard word used in this Book. all his

Abacus , the member ma ked L in number V. Anulets, G numb X. Architrave. numb. I word Archier. Aftragaloes, B numb. XV.

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Band, B numb, IV. Base, word Base numb. I.

Capital, numb. I. word Capital. Cathetus, a line drawn from the top of any thing to the bottom.

Cimatium , Lnumb. V. Composite Order , read numb. XXV. Corinthian Order, The name of Columns made after the manner described in numb. XIX. Cornice, numb. I mord Cornice.

Dentils, B numb. X. Diagonal line, a line drawn from the two opposite Angles in a Square.

Equilaterial Triangle, a Triangle whose sides are all of equal length.

Flutes, D numb. X. Friese, numb. I. ward Friese.

Groeves, A numb. IX. Gula or throat F. numb. V. Ichno-

To the Reader!

1 '

Ichnography, the ground or Plot on which any thing is projected. Intersection, the point where two lines cross one the other. Ionick Order, The name of Columns made after the manner discribed in numb. XII.

L

List, C numb. V.

M

Metops, D numb. X. Model, I have just now told you what it is in this Epistle. Modilion, B numb, X.

o

Overture, an arch as is described between the Columns in numb. VII. Ovolo, A numb. V.

Pedestal, that whereon the Column stands, as in numb. VI. Perpendicular, a line that cuts a second line at right angles, is said to be perpendicular to the second line. Pilasters, the Pillars that stand behind the Columns, whereon the Arches rests: see numb. VII. Plinthus, D numb. IV. Profile, see Ichnography.

Quadrant, the four th part of a Circle.

Right angles, right angles are neither more nor less then square Corners.

Scrollshe winding figure in numb. XVIII is called a Scroll.

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To the Reader.

scroll. Scotia, A numb. XV. Semi-circle, half the circumference of a circle. Spiral line, the two outmostlines of the wreathed Column, numb. XXX. are called Spiral lines. Swathe, the same that Band is.

T

Triglyph, D numb. X. Tondino, B numb. V. Torus, A & B numb. XXII. Tuscan Order, the names of Columns made after the manner described in numb. I.

Voluta the same that Scroll is.

The understanding of this Table is so easie, that I shall not need to explain any thing in it, that I know of : only take notice that where you see a Letter, as B C, Gc, and numb. I. V. X. or the like follow any word; that then you are referred to the leaf marked with that number; therefore in that leaf seek for the same Letter, and the Member that that Letter stands in is called by that name.

I know some that are already sufficient Artists) may think the sleighter of this Book, meerly because I have made it plain to common Capacities: But if such will but look back upon their own younger endeavours, they may perhaps remember the time when themselves would have been glad of any help that might have furthered them in their then-thought tedious and difficult Studies. Besides, they may also know, that it is easier for themselves to know the meaning of plain and easie expressions, than for young Students to understand the directions of hard and difficult Instructions.

Joseph Moxon.

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Ecause I have not found among the Antiquities of Rome any Tuscan Ornaments, from whence I might frame a Rule, as I have done in the other Orders, viz. Dorick, Ionick, Corinthian and Composite, I have made use of Vitravius his Authority, in his 4th Book and 7th Chapter: where he saith, The Tuscan Order with Bafe and Capital must be 7 times its thickness: In the rest of the Ornaments, namely, the Achierave Friese and Cornice, I believe that Rule ought to be followed which I found in the other four Orders, wis. that the Architrave Frield and Cornice must be one fourth part of the Column with Bafe and Capital, which is 14 Models, as may be feen in the figure; And therefore the Archa trave Friese and Cornice ought to be 3 Models and an half, that being one fourth part of the 14 Models contained in the Column , as fhall be mentioned in several other places.

Tuscan Order. 17

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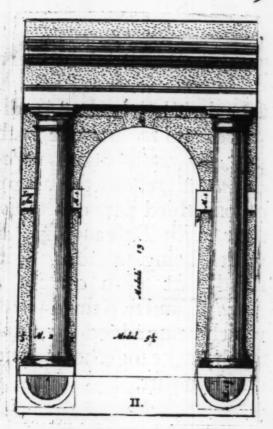
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II.

WHen you make the Tufcan Order without a Pedestal, you must divide its whole height into 17 parts and a half, and call them Models; which Models you must again divide into 12 equall parts; and from the fame is the whole Order made with its feverall members, as may be feen in this Figure, described in whole and broken Numbers.

TUSCAN ORDER.



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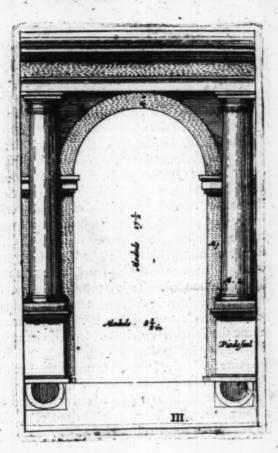
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WHen you make the same Order with a Pedestal, the whole height must be divided into 22 and one fixth part, by reason that the Pedestal doth require the height of one third part of the Column, with Base and Capital, which being 14 Models, its third part doth contain 4 Models, and two third parts; which being added to 17 and a half, make together22; and one fixth part.

Tuscan Order.



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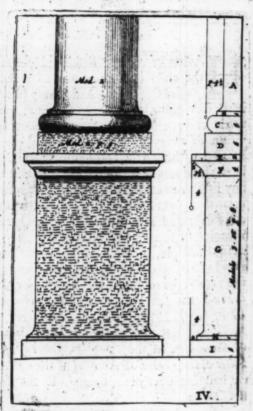
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IV.

Hough it seldome happen in the Tuscan Order to have a Pedestal, yet to follow the Order, I have fet it forth in this Figure; advising you that in all the five Orders I have followed this for a generall rule, that the Pedestal with its Ornaments, must be one third part of the Column with its Basis and Capital: even as in the Ornaments above, the Architrave, Friese and Cornice must make one fourth part of the fame. This being well understood, will prove very profitable and delightfull unto your labour; for being to make any of the five Orders, you must divide the height of the Column with its Ornaments into 19 parts, then take the height of the Column with its Basis and Capital, and make the divisions of the Models according to its Order, Dorick, Ionick, &c. then you must frame the Fabrick with this Model, dividing its parts as may be feen in the Figure: where A represents the Body of the Column, B the nether Band or Swathe of the Column, C the Torus, D the Planthus, Ethe Lift, (agenerall name used in all members alike, whether less or more,) F the Gula or throat, reverled in the Pedestal.

Tuscan Order. 23



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24 A Description of the

V.

Aving heretofore described in general the chiefest Dimensions Tuscan Order by; and having here and in the fore-going leaf fet down the parts at large, to the end you may fee in the particulars the division of every small member, and also the Draughts though the Draughts with the Members alone might be fufficiently understood of any ingenious capacity without any Comment upon them) yet for the more casie instructing of all Lovers of Art, I shall also give you the meaning of some generall Terms used in Art; as for Example, the Member marked with Ain this Figure, is called the Ovolo, or the Egg, B the Tondino, or round, C the Lift or Rule, D the Crown, E the List, F the Gula or Throat reverled, G the Friese, H the List of the Architrave, I the Architrave, Kthe Lift of the Abacus, Lthe Abacus or Cimatium, M the Ovolo, N the Lift, O the Friese of the Capital, Pthe Neck of the Column, Q the hanging over of the Capital, R the Body of the Column.

Tuscan Order. 2

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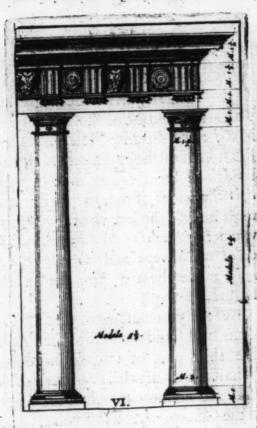
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VI.

O make the Dorick Order without a Pedestal, you must divide the whole height into 20 parts, and one of those parts shall be the Model; which Model you must divide into 12 parts, as in the Tuscan Order; The Foot or Basis, with the nethermost Swathe or Band, shall be of one Model; the height of the Column between the Base and Capital, shall be 14 Models; the Capital I Model, which added together, make 16 Models, for the height of the Column, with Base and Capital: Then (as I told you before in the Tuscan Order) the Architrave, Friese and Cornice, must be one fourth part of the Column with its Base and Capital, as you may feein the Figure : where the Architrave is I Model, the Friese I and a half, and the Cornice z and an half, which added together, make 4 Models, for the height of the Architrave, Friese and Cornice, which is one quarter of 16. the height of the Column with its Base and Capital. And if you adde the 4 Models for the Architrave, Friese and Cornice to 16, there will arise 20 Models, for the height of the Column with its Baseand Capital; which is the whole height, as aforesaid.

DORICK ORDER. 27



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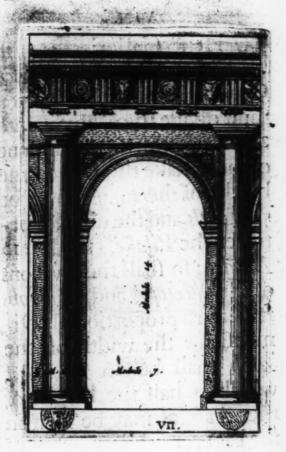
VII.

Hen you make Galleries of the Dorick Order, you must (as aforesaid) divide the height into 20 parts, and one of those shall be the Model: the distance between the two Pilasters must be 7 Models, and the bredth of the Pilasters must be 3 Models; the width of the Overture or Arch must be half the length of the Column, which is 7 Models; and for the division of the Metops and Trygliphs, you may make them as you see in this Figure.

But this you must note, that the Column must stand out before the Pilaster one third part of a Model more then its half; because the Projectors of the Arch are no more then half the length of the Column. And this you may observe for a Rule in all the other Orders

upon the like occasion.

DORICK ORDER. 29



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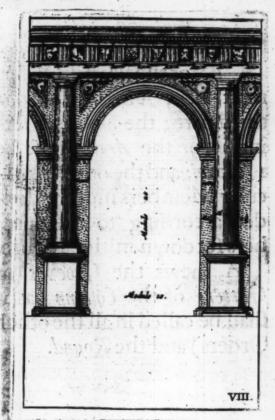
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W Hen Galleries are to be made after the Dorick Order, with Pedestals, you must divide the Column into 25 and one third part; and one of these make the Model: the bredth of the Pilaster shall be 5 Models, and the distance between the Pilasters shall be 10 Models; fo shall the divisions of the Metopes and Trigliphs fall into a proportionall Dimension: the width of the Arch shall be to Models; which is half the height of the Arch, as may be feen in the Figure.

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Dorick Order. 31



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IX

The height of the Pedeftal of the Dorick Order, must be 5 Models and one third part; the Impost, or seting on of the Arch, must be 1 Model: and the other particular Members must be divided according to the numbers set down in the Figure.

A, shews the Groeves or Gutters of the Column (as it shall be called in all the other Orders) and the Round.

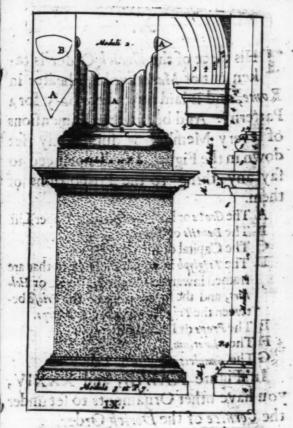
Dorick ORDER. 33

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His piece of the Dorick Order is taken out of Marcellus his Theater in Rome, and is laid down here only for a Pattern: And because the Dimensions of every Member is sufficiently set down in the Figure, I shall not need to say, any thing to the Proportions of them.

A The Grove or hollowing of the Upper Lift.

B The Dentils or Teeth.

C The Capital of the Triglyph.

D. The Trigipph in which those parts that are framed inwards are called Flutes, or Hole hims, and the fquare place of the Friefe between the Trigiphs is called a Metops.

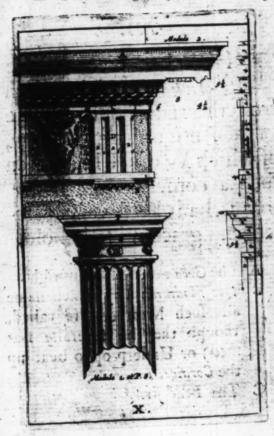
E The Props or little Bells.

F The Cimatium.

G The Annulets, Bands, or Liks.

In Figure XXXIII, and XXXIV, you have other Ornaments to set under the Cornice of the Dorick Order.

DORICK ORDER.



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XI.

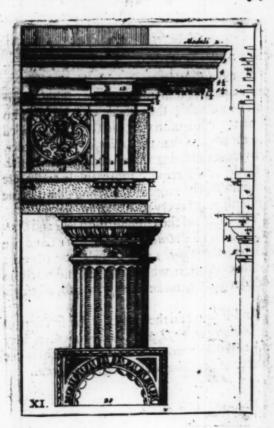
This other piece of the Dorick Order is taken from the remainder of some of the Antiquities of Rome, of which Work I have seen such a comely Composure, that it hath been very pleafant and gracefull to behold.

A The Gola reversed, or upright.

B The Modillion (by which name all such Members are called, though they be severally framed) or Underprop to bear up the Cornice.

C The Bead String.

DORICK ORDER. 37



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XII.

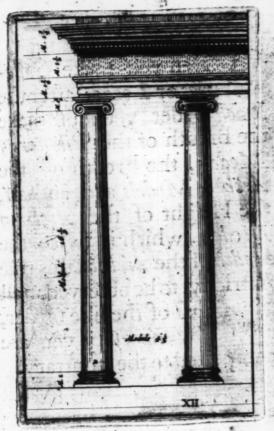
W Hen you make the Joniek Order without a Pedestal, you must divide its whole height into 22 parts and an half, and one of those parts shall be a Model; then divide each Model into 18 parts: The reason why each Model is divided into more parts than the Tuscan, or Dorick Order, is, because this being a more curious and spritely Order, doth require more small and acute divisions for the more exactletting down of the Dimensions of every particular Member. The length of the Column with Base and Capi-

tal, must be i 8 Models, the Architrave I and one quarter, the Friese 1 and an half, the Cornice 1 and three quarters; which numbers and tractions added together, make 22 and an half, as afore-

faid.

And if you add the numbers and fractions of the Architrave, Frise, and Cornice together, they will make 4 Models and an half, which is one quarter of the Column with Bafe and Capital.

IONICK ORDER. 39



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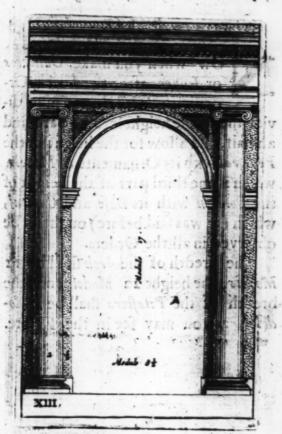
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XIII.

Hen you make Galleries or Lodges after the Ionick Order, you must make the Bredth of the Pilasters 3 Models, the Bredth of the Arch 8 Models and an half, the Height of the Arch 17 Models, which is twice the bredth of the Arch: & this rule is strictly to be observed in all the Arches of the like Order, unlesse by necessity you are compelled to the contrary.

IONICK ORDER. 41



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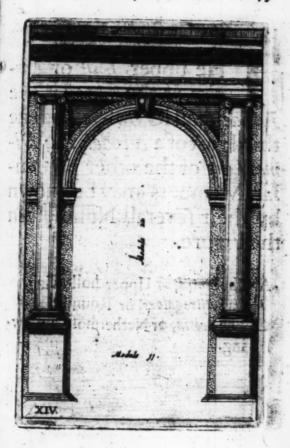
42 A Description of the

XIV.

Ow when you make Galleries or Lodges after the Ionick Order with Pedestals, you must divide the whole height into 28 parts and an half, and allow for the height of the Pedestal with its Ornaments 6 Models, which is one third part of the height of the Column with its Base and Capital, which (as was said before) ought to be observed in all the Orders.

The bredth of the Arch shall be I I Models, the height 22 Models, and the bredth of the Pilasters shall be 4 Models; as you may see in the Figure.

IONICK ORDER. 43



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44 A Description of the

XV.

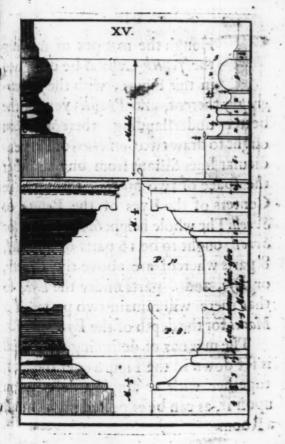
He upper List or Cornice of the Impost is one Model, and its Out-jetting one third part of a Model; the Dimensions of the other particular Members may be known by their severall Numbers in the Figure.

· A The Scotia, or Upper-hollowing.

B The Astragaloes, or Rounds.

C The Scotia, or Nethermost-hollow-ing.

JONICK ORDER.



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46 A Description of the.

XVI.

Hough the manner of making the Jonick Capital be designed in this Figure, with the Ichnography thereof, and Profile; yet for the better understanding thereof, you ought to draw two Cathetus, or Perpendicular lines distant from one another the space of two Models, through the Centers of the Eyes of the Voluta or Scroll. The whole height of the Voluta, or Scroll, ought to be 16 parts of a Model, 8 parts whereof are above the Center, or Eye, and 6 parts under the Eye, so that there will remain two parts of a Model for the depth of the Eye.

The manner of designing this Scroll is set down in the Figure over the leaf, together with as ample a description upon it, as can be expected in so small

a Room.

JONICK ORDER 47

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48 A Description of the

The manner of making the Voluta or Scroll.

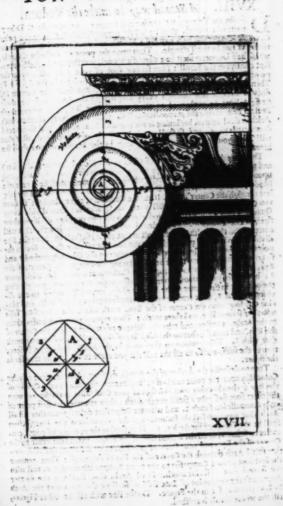
First, Draw a Cathetus, whose length must be 16 parts of a Model, and upon the 7th, part upwards, make the Center of the eye of the Scroll, and upon that Center describe a Circle, whose half Diameter shall be one part, and that Circle shall be the eye of the Scroll, then through the Center of the Eye draw a straight sine, that shall both cut the Cathetus at right Angles, and divide the Circle into 4 equall parts; then from the points of Interaction of the first lines with the Circle; describe a Square within the Eye, and every side of this square divide into two equall parts, and from each Division to its Opposite, draw straight lines; then divide each of these lines from the Center into 2 equal parts, and with square mark every point of Division (as in the Drast) with 1,243, &c. and from this ground-weake you may with great ease describe the whole Scroll, as followeth.

First place one foot of your Compasses upon the side of the Square, at the point 1, and extend the other to the top of the Cathetus, and from thence describes a Quadrant, which will reach from the top of the Cathetus aforestaid, to the strength line that is perpendicular to the Cathetus: then remove the one foot of your Compasses to figure 1, and bring the other foot to the ending of the former Quadrant, and from thence describe another Quadrant, which shall end at the bottom of the Cathetus: then move your Compasses again, and place one foot at figure 3, and the other foot where the second Quadrant ended, and from thence describe another Quadrant: then move your Compasses to figure 4, and where your last Quadrant ended, describe another; then move one foot of your Compasses into the point of Division marked with Figure 5, and fir the other foot to the place where your last Quadrant ended, and from thence describe another Quadrant; trom thence move to 5, and describe another Quadrant; then 10 7; then to 8, &c.

To make the thickness of the List of the Scroll.

The thickness of the Lift must be one quarter of the space of the shortest diffance between the two edges in the Scroll; therefore when you draw a List abour it, you must divide the space between every one of the 12 Centers, into a equall parts, sind place, one stoot of your Compasses upon the division that fals next to the Centre of that Arch whose List you mean to draw, and with the other soot you may describe the Arch that shall be the bounds of the birt of the Scroll in that place. Do the like in all the rest, and your Scroll, and List about it will be smithed.

IONICKORDER. 49



Scroll, be one Center t right ints of within d from of these

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Division re your trom 8, &c.

thorte when one of mpaffes ift you ch that like in

50 A Description of the XVIII. A Second way to make the Voluta.

Escribe the Triangle BCD after this manner. Let the fide C Dbe? parts of a Model, then let fall the perpendicular B C upon the point C, whose length must be 9 parts of a Model, and from the points B D, draw the offer line in the Triangle. Then upon the point C, describe a Circle, whose half Diameter shall be r part of a Model, and this Circle shall repre-sent the Eye of the Scroll: Then set one foot of your Compass, upon the point D, and extend the other to the point C, and so describe the Arch EF; Then divide that Arch E F into 14 equal parts, and from the Centre D, draw a freight line through every Division of the Arch, and let those fireight lines be prolonged to the perpendicular B C, and where those fireight lines divide the perpendicular B C, there mark every division with Arithmetical figures, beginning at the top with I, a, 2, & c., and so proceed downwards to 25, and so shall you have a Scale of the perpendicular that will give you the Center of every arch in the Scroll, as you shall fee

hereafter.

Therefore draw your Catherin of 16 parts of a Model (as was faid before) and plate year Center of the eye of the Scroll upon 7 parts upwards, and upon that Center defermes a Circle, whole half Diameter shall be 1 part of a Model, and this Circle shall be the Eye of the Scroll; Then draw a streight line through the Center that shall cut the Cathetus at right Angles; so have you the Eye divided into a equall parts or Quadrants; then divide every Quadrant into 2 equall parts, and through the two opposite divisions draw fireignt lines (which must be continued out to a convenient length, what will comprehend the bredth of the Scroll in that place) to thall you have the Eye divided into 8 equall parts; then fet the one foot of your Compasses in the point C of the Triangle, and extend the other to the Division marked x and to transfer that diffusee testis Scroll, placing one foot at the Center of the Bye, and the other foot to the top of the Catherus and mark that with saure 1; having so done, remove your Compasses to the Scale again, and placing the one togs in the Center of the Bye, as afore, extend the other to the difference of the Scale again. wifion marked a, then remove your Compalles again to the Scroll, and pla-cing one feor upon the Center of the Eye, mark where the other foot falls upon the second line, and there mark: Then remove your Compalles again to the Scale, as before, and take the distance of number a from the Center of the Eye, and gransfer that to the third line of the Scroll, as before, and mark that with 3. Then remove to the fourth in the Scale, and do as before, then to the fifth, and so to all the rest till you come to 25, as you may see in the figure.

Then to describe the Arches of the Scroll, do thus: Place one foot of your Compasses upon the point marked I, and extend the other to the Center of the Eye; then keeping your first foot of your Compasses at the figure; with the other foot def. ribe a small occult Arch; then remove the first point of your Compasses to figure 1, and with the other foot describe another small Arch, that may interfect the former, and the very point of the Interfection thall be the Center of the Arch 1, 2. Then fetting the one foot of your Compaffes to figure 2, upon the fecond line of the Scroll, extend the other to the Center of the Eye, and your Compasses being at that distance, describe another fma'l Arch through the Center of the Eye of the Scroll : Then remove the first foot of your Compasses to the point 3, upon the third live, and with the fecond foot describe another small Arch, that shall cut the former Arch, and the very point of Interfiction thall be the Center of the Arch 2, 3, as you may fee in the Figure. Do the like with all the other Figures,

till the whole Scroll is anithed.

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12 A Description of the

XIX.

O make the Corinthian Order without Pedeftals, you must divide the whole height into 25 parts, and one of those parts shall be the Model; which Model you must divide into 18 parts, as in the Jonick Order. The distance between the Columns must be 4 Models, and two third parts of a Model; both because the Architrave above may not bear too much, and also because the Models in the Cornice may be just over the middle of the Column, in their due proportions and proper places. The other Divifions and Dimensions of every particular Member, may be seen in the Figure, and therefore will need no further Explanation.

CORINTHIAN ORDERS



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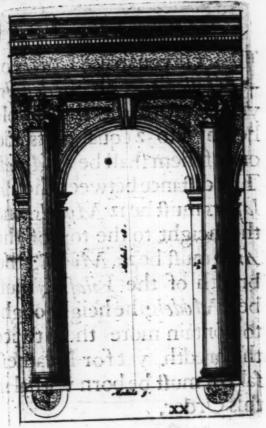
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XX.

IF you make Arches of Galleries according to the Corinthian Order, you must make the distance between the Pilasters 9 Models, and the height to the top of the Arch 18 Models; and the bredth of the Pilasters 3 Models: For the rest of the work, you may proceed according to the figures in the Description.

CORINTHIAN ORDERS



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XXI.

BV tif you make Lodges or Galleries with Pedestals, you must divide the whole height into 32 equal parts, and one of them shall be a Model: The distance between the Pilafters must be 12 Models, and the height to the top of the Archmust be 25 Models; the bredth of the Pilasters must be 4 Models; the height ought to contain more then twice the bredth, yet for Neatness fake it must be born withal in this Order.

CORINTHIAN OR DER. 37

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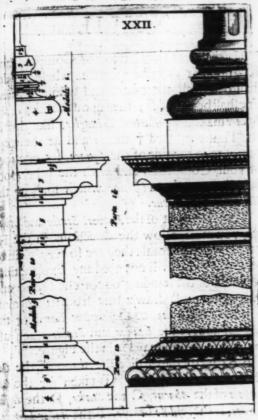
XXII.

IF the Pedestal of this Co-rinthian Order were the third part of the Column; it should be 6 Models, and two third parts of a Model; but for the greater Arength, it may be made of 7 Models; which in this Order will not do amis; and also, because the meer Pedestal without the Cimatia and Base, may be twice the length of its bredth.

A The upper Torus, or Smathe.

B The nether Torus, or Swathe.

CORINTHIANORDER.59



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60 . A Description of the

XXIII.

First measure the Ground or Compass, and upon it describe a square, whose 4 sides shall be equall thereunto, and whose Diagonal line shall be 4 Models; then upon the sides of the Square make 4 Equilateral Triangles, like that in the Figure marked † thus; and at the Angle opposite to the side of the Square, set one foot of your Compasses, and with the other foot describe an Arch of a Circle, which shall be the Hollow of the Abacus.

For the height of the Leaves, Stalks and Abaeus, you must follow the directions in the Figure; which because they are so very plain to be understood, will not need any Explanation.

Then for the standing out of the Leaves and Stalks, you must draw a line from the utmost point of the Abacus, to the upper Band of the Column, and let the Leaves and Stalks reach just to the line, as you may see in the Figure.

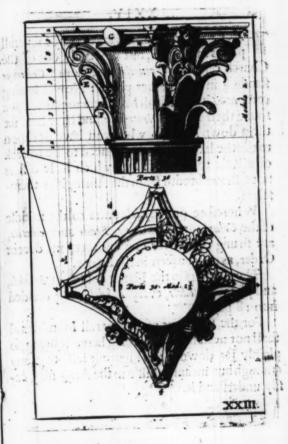
A B together are called the Abacus of the Capital, but for distinction, A is taken for the Cimatium of the Abacus, C the Stalks, D the leffer Leases, E the middle Leaves, F the under Leaves, G the Flower.

CORINTHIANORDER.61

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62 A Description of the

XXIV.

The Corinthian Cornice is taken out of severall places in Roms, but especially out of the Church called La Rotunda, and from 3 Columns standing in the Market place: Now I having compared its principall Members together, have found their several Dimensions, and have here set them down; that so when you have occasion to use the like, you shall not need to be to seek of a Rule to worke it by, which Rule differs not a straws bredth from the Antiquities themselves.

Wherefore one Model comes to the middle of the Column, and its Ovals, Beads and Dentils, are strung right over one another, in a decent Order, as may be seen in the Figure.

The numbers in the Figure confift of Models, and parts of Models, every Model being divided

into 18 parts.

For the Divisions of the severall Members, I shall not need to say any thing here, it being so plainly set down in the Figure it self, that any (though but meanly skill d in the Art,) may eafily understand it.

CORINTHIANORDER.63

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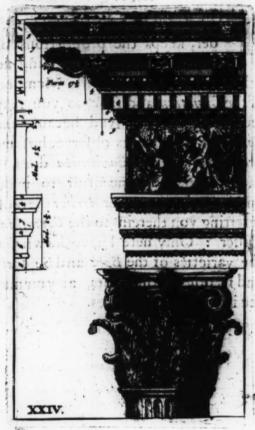
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64 A Description of the

XXV.

His Pedestal of the Composite Order, keeps the proportions of the Corintbian, there being no other difference but in the Members of the Cimatium and Base, as you may see in the Figure. And because the Composite Ornaments observe the same proportion as the Corintbian does, I have not judged it needfull to make any several Columns or Arches thereof, referring you therein to the Corintbian Order: Only here I have shown you the varieties of the Base and Capital, and its other Ornaments, as you may see in their proper places.

COMPOSITE ORDER. OF

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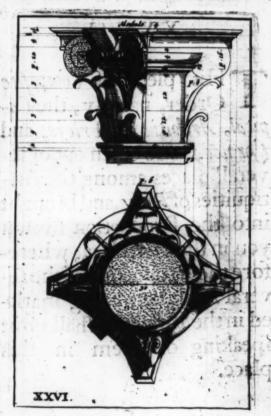
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XXVI.

This Ichnography and Pro-file, or Compass of the Composite Capital, is made after the same manner as the Corinthian Capital is made: onely where the Corintbian hath its finall Stalks, the Composite hath Voluta's, or Scrolls, after the fonick Order. This Invention came from the Ancient Romans, who borrowing one part of the fonick, and another of the Corinthian Order, strove thereby to joyn as much Beauty and Bravery as they could together.

COMPOSITE ORDER. 87



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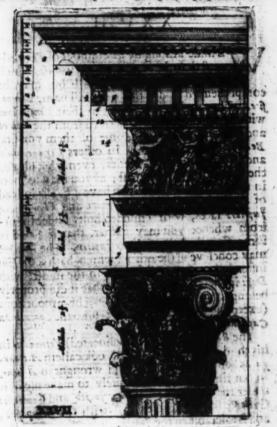
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XXVII.

This piece of Composite Order, namely, the Capital, Architrave, Friese, and Cornice, is also taken out of severall places among the Antiquities of Rome, and brought, into the Proportion shown you in the Corintbian; wherefore the Proportion of the feveral Members being marked in the Figure, I shall omit speaking of them in this place.

COMPOSITE ORDER. 69



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XXVIII.

Efinde among the Antiquities of Rome, almost inhnite varieties of Capitals, which have no proper name at all, but may be comprehended under this generall name Compofre. They do likewile agree in their Dimen fons with the other Composite, derived from the lowek and Corintbian; only in lome of them you find Beafte inflead of Stalks : in others Cornucopia's, and in others other varieties, even what pleafed the Paucy of the Artist best; as you may see here in this Defigne : where you have 4 Engles instead of Stalks, and inflead of Fruits and Flowers , 4 Jupiners faces, with Thunder-bolts under them; from whence you may gather, that it stood in some Temple dedicated to Jupicer. The like we may concieve of the other (which hath 4 Griffins instead of Stalks, and a Engl s in the midst, with Dogs in their Talons or Claus) that it did properly belong to some of their Idols. The proportions (excepting the Beafts) is like unto the Corinthian Capitals.

2 19915

The Base (which is last delineated) Ferruvin in his the dehapter of his third Book calleth Actionry a as being first invented and wrought in A bens. In our times we use indefinitely to make use of it under the Dorick, Coronthian, Jonick and Composite Order; but it agreeth best with the Composite,

and is tolerable in the fonick;

COMPOSITE ORDER. 71



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XXIX.

Here are divers wayes to leffen Collumns, whereof I have here and in the following page fer down those two which are nost esteemed of.
The first and best is this After you know the beight and thickness of the Column won must divide the Cathetus thereor into a equal parts, and in the point of the first division upwards, draw a thwart line through the Column, that thall cut the Catherus at right Angles, then in the point of Interfection, fer one foor of your Compasses, and extend the other foot to one of the sides of the Column, or to half the bredth, which is all one, and fo describe a Semi-circle upon the thwarr line, then, divide half that Semi-ircle into fo many parts as you pleafe, as into 6, 9, 12, 15, or more, and no e that into formany parts as you divide the Semi-circle, to many equall parts you must divide the two upper thirds of the Cathetus into, and upon every Division draw ftraight Lines through the Column, that thall cut the Cathetus at right Angles , then from every point of Division in the Semicircle, draw straight Lines parallel to the Cathetus, and where thefe ftraight lin's interfect the Lines drawn athwart the Column, there thall be the feverall points that you must leffen the Column into in every particular place. But you must take notice, that the Line drawn from the heft point of Division in the Sem circle, must interfect the line drawn from the first Division in the Cathetus; and the fecond in the Semicircle, the line drawa from the fecond in the Cathegus; the third in the Semi-ci cle, from the third in the Cathetus, and fo forth; every line drawn from the severall points of Division in the Semi-circle, must intersed the line drawn from the same number of Divisions in the Catherus.

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Having thus drawn one fide of the Column, you may by the fame Rules draw the other fide also or elfe measuring with your Compasses the distance of every point of lessent from the Cathetus, you need but tun your Compasses about upon the point that stands in the Cathetus, and so transfer the distance to the other lide of the Column.

This kind of leffening may be used in the Tuscan and Dorick Order, which Orders are not to be lessened below the nethermost third part of the Column.

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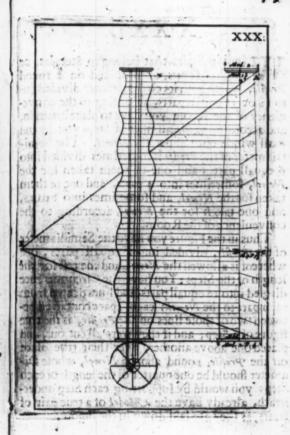
XXX.

Another way to leffen Collumns.

This feeond way of leffening Collamns, our Anthour found out by his own fludy and Investions and though it be not very common, yet it is sofic enough to be undershood by the Figure: Wherefive in the first place, to a mant divide the whole Cashetus into 3 equall parts, and through the first place, to a mant divide the whole Cashetus into 3 equall parts, and through the first point of Division (consting upwards) you must draw a thwart line, as C D that fivel car be Catherus et right Angles, which line and the continued to a convenient length, as to E. char fo it may be interdicted by the lines draws from the divisions in the Catherus, and if you intend to have your Collamn wreathed, divide every one of those four parts, into four equall years more a for full your Catherus be divided into 43 equal parts. Then with your Compasses are the length of the line C D, and carry that isage to the trap of the Collamn, placing one foot of your Compasses in the point B; and through their two points draw a straight lines, and continues it ill it interacted the line C D E, as here it tools in the point B; Then from the point E draw straight lines through every fingle division is the Catherus, as in the Figure, out if you least (for more excited) through every fingle division is the Catherus, and cantinue them to the outside of the Collamn; I then keyping your Compasses to thair for more distance, places are foot agan the point of Interdiction of every one of the Open lines with the Catherus, and cantinue them to the outside of the Collamn; I then keyping your Compasses to thair for more distance, places are foot agan the point of Interdiction of every one of the Open lines with the Catherus, and the place. And note that though the former Collamn upon the same long line; and where the other foot of your Compasses flats, there shall be the point to that for more distance, places are foot agan the point of Interdiction of every one of the Open lines with the displace of the Collamns and Composite orders, suit be lessense from the

in the place.

Note, that if you make the little inness Circle bigger, then will the Collumn be more wreathed; if less, then will the Collumn be less wreathed.



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XXXI.

Inding Stairs that belong to Steeples, or high Ascents, are projected on a round Profile, which hath its circumference divided into 12 or 16 equall parts, according to the conveniency of the Room you have to place them in, and according to the number of Steps you intend shall winde once about the Newel. The Semi-Diameter of the Profile is sometimes divided into 6 equall parts, and one of them taken for the Newel, sometimes into 4 parts, and one of them taken for the Newel, and sometimes into 3 parts, and one taken for the Newel, according to the

convenience of the Room, &c.

Thus in the Figure you have the Semidiameter of the Profile, divided into 4 equalt parts, one whereof is allowed the Newel, and the rest for the length of the Steps: You have the Circumference divided into 16 equall parts, and lines drawn from each part to the Newel; each space contained between two of those lines on the Profile, is the true sigure of a Step; and if they were all cut out, and placed one above another, over their true place on the Profile, round about a Newel, whose Diameter should be one quarter of the length of each Step; you would by supporting each Step underneath, already have the Model of a true pair of Stairs, as they are laid down in the Figure.

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XXXII.

THis Cornice I have often made use of for finishing of a Frontispiece, and hath been very well liked of: and though it be of my own invention, yet I have thought fitting to fet it down at the end of this little work, for the benefit of them that shall think fitting to make use of it: its proportion with the Frontispiece is such, that the whole height being divided into 11 parts, there remains 1 for the Cornice, and 10 for the Frontispiece, and the rest is plain enough to be feen in the Figure.

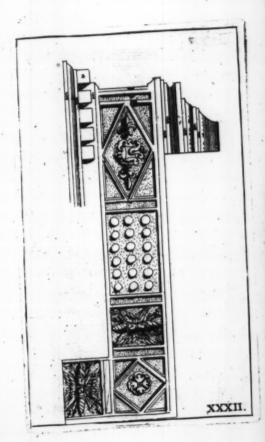
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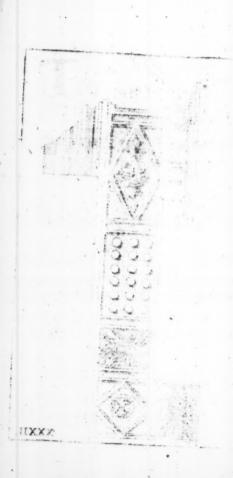
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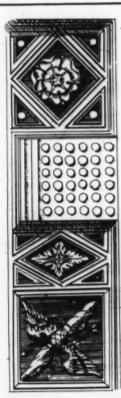
This Figure and Ornament under the Cornice of the Dorick Order, is fet down also in the tenth figure.

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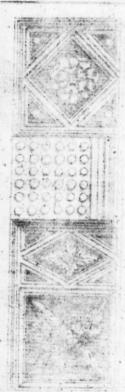




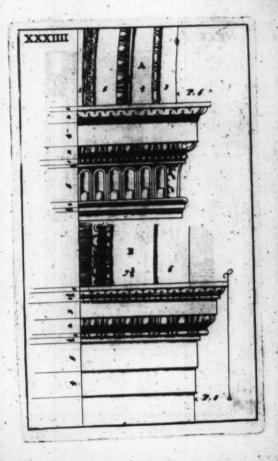
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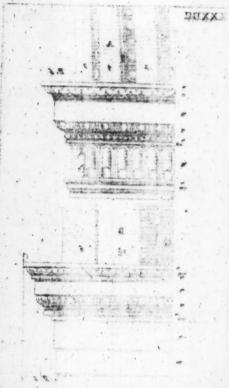


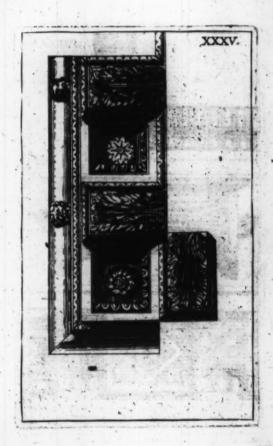
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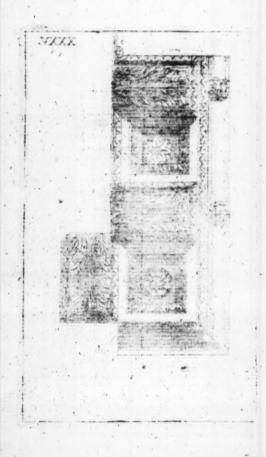


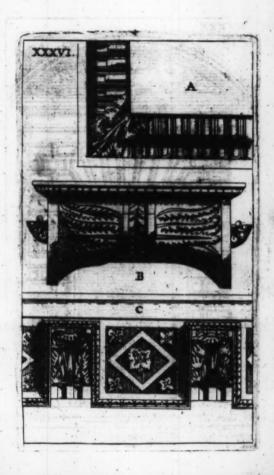
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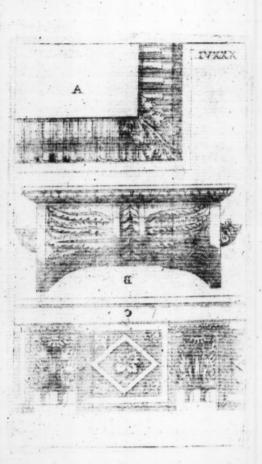


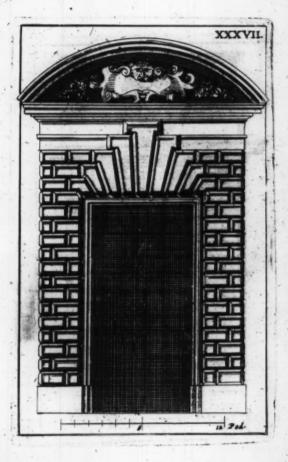


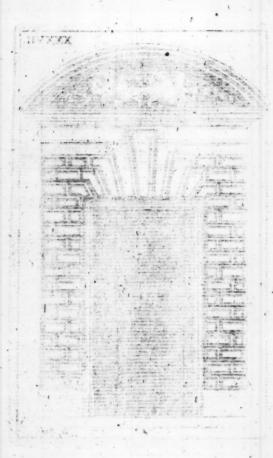




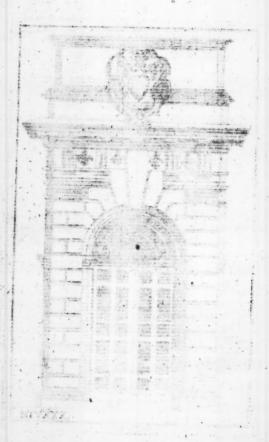


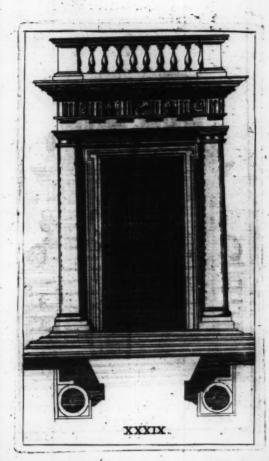


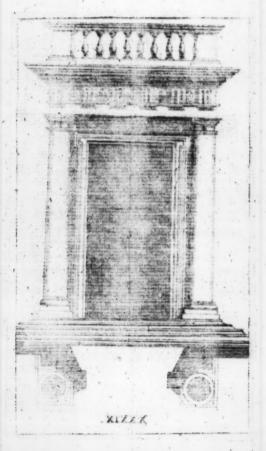




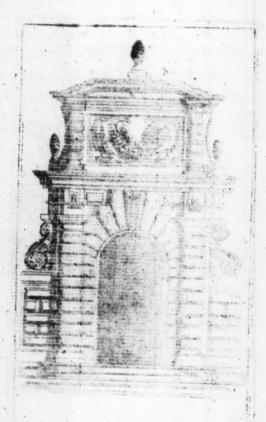




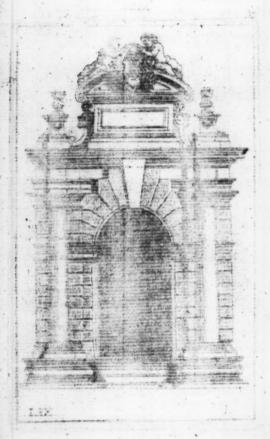


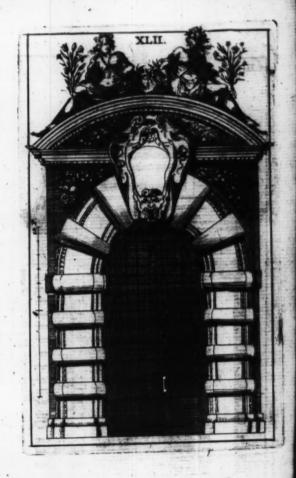


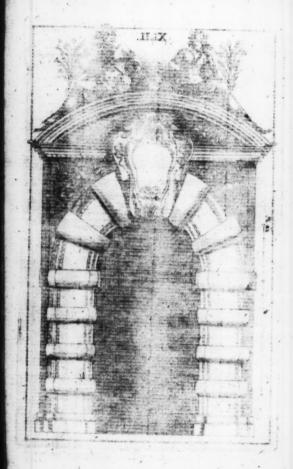


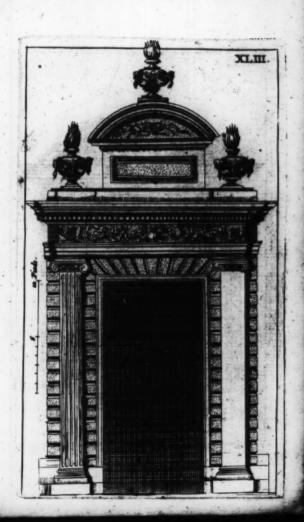




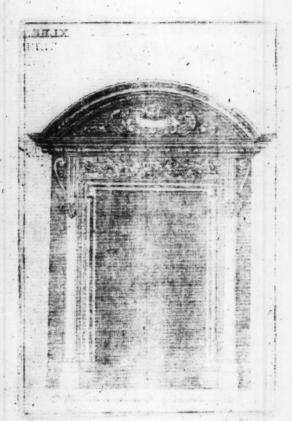


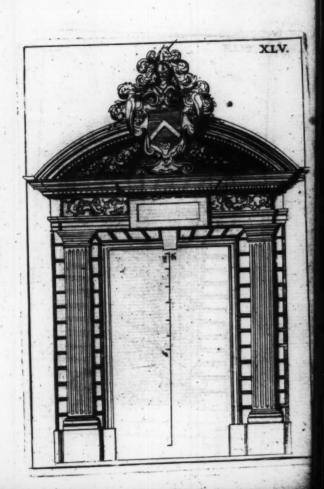


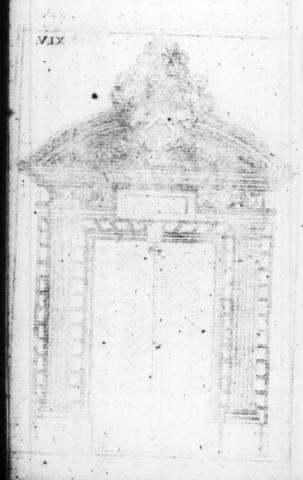


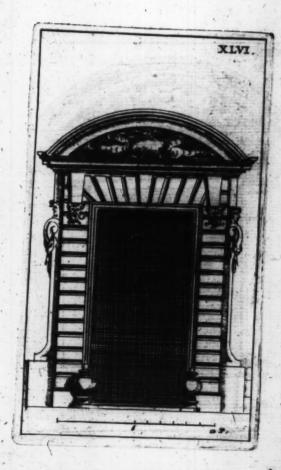




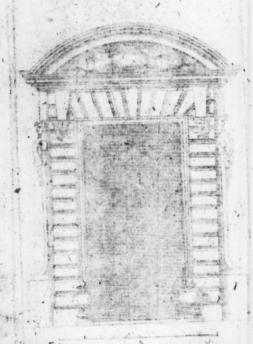


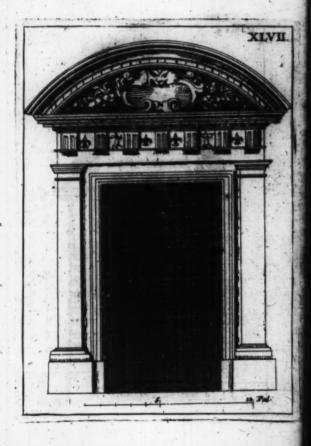




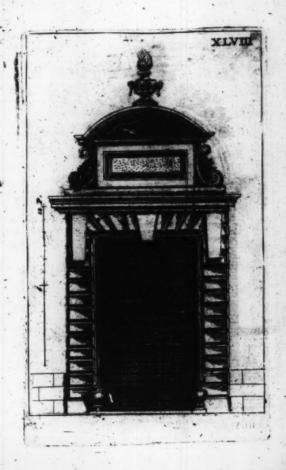


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